SAPC 5582 Cya of 8

20 April 1956

MEMORAHMUM FOR: Project Operations Officer

SUBJECT

- : Visit to the Eastman Eadak Processing Plant By (10-17 April)
- 1. Purpose of Trin-The purpose of the trip was to evaluate the photography from the U.S.C.M. test and to report results daily to the Project Operations. A secondary purpose was the evaluation of the present presenting capability of the Processing Plant.
- General Photographic Symbolion (Missions A-1018 and A-1019 and Camera #7 of Mission A-1012 not included)
 - a. Evaluation of Cameres #2,3 and 4

Overall Density-Generally the density appeared thin, but all negatives reported herein, except A-1012, received only primary development. . Interposed processing plus secondary development would provide necessary density in most cases.

Gontrast and Pance-Contrast tended to be low, but secondary development would possibly have helped to some extent.

APPARENT Resolution—The resolution was comparable to proviously observed photography, but as meted in the past the resolution does not appear to be as good as the resolution of Cameras #5,6,7 and 8.

<u>Plare-</u>Very little noted, emecat eccasionally when vehicle relied or turned eccasionally.

Yaquan Pailure-The Only serious vacuum failure noted was a few frames on Missien A-1013, Camera #V3

listering-No metering problem noted.

Closk-The clock appears to be improved sementat, but is still not acceptable. It is blurred, faint and not always operating. The area on the clock face for mission numbers should be reduced in size to make the clock more readable. 25X1

Appears Counter-The counter is invariably difficult or impossible to read and often does not advance properly when it can be seen.

Vicusting-Appears consesive for cameras utilizing Notregon langes. Presents a problem in printing because of the thin corners on each frame causing the darbaning of print corners.

Faz level-Expert processing produced negatives of mini man for level.

Processing Defects-Some defects were noted such as improper drying, tearing and serutches, "sto." These defeets will be eliminated as more experience is gained. Restaum Redak has argently requested large quantities of test meterial so they can gain necessary experience.

b. Evaluation of Cameres \$5.6.7 and 8

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Overall Dennity-Dennity varied with missions from thin to very dame. Secondary development would have been beneficial in several cases.

Contrast and Range-Poor to excellent

Apparent Resolution-Foor to excellent. Where ecalpment was operating properly resolution was expellent.

Flare-Mone noted

Yasuna Failure-On missions A-1012 and A-1015 some frames appeared to have partial vacuum failure. The small blurred areas noted on previous photography (reported M and were noted on some missions, but not as frequently as in the past.

25X1

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Hetering-Space between formats was often expessive. Specifications sall for no more than one half inch between frames, but many missions were between three-quabters and one and three quarters inches.

Clack-A new clock has been installed, but it tends to be thin (will not print) and often inoperative. The image is sharp, but needs added illumination.

(3)

Exposure Counter-The counter is generally too thin to print and often inoperative or advances intermittently.

<u> Yisnetting-None noted.</u>

Por Level-Expellent.

Processing Defects-(See 2 a. 5 above)

011-Hission 4-1005 R-6 and A-1012 R-6

3. Processing Plant

a. Proposing-Primary processing has been undersay foreseveral weeks and generally most of the "buge" have been removed from the processing operation.

All U.S.C.M. photography exmept mission A-1012, ASROLS,

A-1019 received only primary development.

Mission A-1012 received "Interupted Processing" during my visit. This is accomplished by primary development followed by stabilization. The roll is then seamed by Infrared to determine if further processing is required. The first attempt to utilise "Interupted Processing" showed much proxise for this technique.

It is necessary that large quantities of test photography be sent to the Processing Plant in order that experience is obtained and techniques devaloped.

b. Printing-The printer is now at the plant but there presently is a tracking problem causing file and paper to tear. This shall be remedied shortly.

The printer utilizes a seamer which reads a high and low density on each frame regulating the intensity of white and blue printing lights used in conjunction with variable contrast Resiste printing paper.

- c. Titling Film-Some rolls were titled, with a temporary device, to provide P.I.'s with samples of letter size and type to evaluate. It appears to be very satisfactory.
- d. Cutting Prints This was not accomplished because of the urgency of sending U.S.C.M. film to Washington. It appears that this job will have to be done manually.

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4- Recommendations

- a. Data chambers—Illumination must be increased and counters and clocks must be repaired or replaced. These clocks and counters are of great importance to the Photo Interpreters and must operate reliably.
- b. Santier MalConstign-On mission A-1007 Comers #2 malfunctioned. Samples were sent to the ranch.
- c. Have Care Daring Proflicht Headed- It has become apparent that more care should be taken during proflight camera importions. Insperative alcoks, counters, "etc" should be noted during proflights.
- d. Oil on Optical Porty-Camera R-6 on Mission A-1005 and R-6 on A-1014 had negatives that appeared to have been taken through oil or hydrolic Stude. This should be checked.
- Hare electrones needed at Proceeding Plant-The plant will not be operational until more people are cleared and trained It is recommended those clearances be accomplished as soon as possible.
- f. Seratebes on Film From Cameras #2.3 and 4 As in the post, all film viewed suffered from many seratebes and pressure stracks (strictions) parallel to the film rell. These magazines should be checked to determine came.
- 5. Presenting Flori Should Experiment with Various Printing Interp-Resiste type papers are presently being used at the plant. This paper takes a "permanent set" and after sutting surl bedly. Possibly other printing papers would not ourl as badly. A "print straightener would probably help.

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